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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030040893 A1

AB: A method of retrieving an object contained in a domain .delta. within a space .DELTA. containing a set of objects described in an initial matrix M, comprising construction of a subset .omega. of objects contained in the said domain .delta. by extracting a matrix .mu. from the initial matrix M. A matrixing M of the space .DELTA. is created by superimposing a large number of geometric matrices with different specifications .rho., each one of the meshes of each geometric matrix being identified by a unique and specific numerical value called a matrix code. The matrix M is sorted by matrix codes according to a predetermined order, with specifications .rho.. Then the extraction matrix .mu. is constructed, describing only the objects affected by the said meshes included in domain .delta. or intersected by domain .delta..

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Imag
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☐ 2. Document ID: US 20020091655 A1

AB: A method and computer product is presented for mapping n-dimensional input patterns into an m-dimensional space so as to preserve relationships that may exist in the n-dimensional space. A subset of the input patterns is chosen and mapped into the m-dimensional space using an iterative nonlinear mapping process. A set of locally defined neural networks is created, then trained in accordance with the mapping produced by the iterative process. Additional input patterns not in the subset are mapped into the m-dimensional space by using one of the local neural networks. In an alternative embodiment, the local neural networks are only used after training and use of a global neural network. The global neural network is trained in accordance with the mapping produced by the iterative process. Input patterns are initially projected into the m-dimensional space using the global neural network. Local neural networks are then used to refine the results of the global network.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Imag
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☐ 3. Document ID: US 6591004 B1

AB: A method for reconstructing surfaces and analyzing surface and volume representations of the shape of an object or structure corresponding to image data, in which the structure has been modeled as one or more physically distinct compartments. The characteristics of a compartmental model are specified in terms of the material types contained in each distinct compartment and in terms of the nature of compartmental boundaries as defined by the image data. An image model that includes scalar or vector image intensity functions for each material type and for each boundary type defined by the image data is specified. Gradient functions that characterize each boundary type and some compartmental regions are specified. A set of probabilistic volume representations of the location of

different compartments and the location and orientation of compartmental boundaries is generated. A combination of these probabilistic representations is used to generate a segmented volume and explicit surface reconstructions representing the shape of the structure of interest. If the structure of interest has an open rather than closed topology and if it adjoins additional structures along its natural perimeter, a method is specified for identifying the adjoining structures using a combination of logical operations and shape-changing operations applied to appropriately selected intermediate segmented volumes.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Imag
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☐ 4. Document ID: US 5940778 A

AB: The present invention relates generally to the field of seismic exploration and, in more particular, to methods of quantifying and visualizing structural and stratigraphic features in three dimensions through the use of eigenvector and eigenvalue analyses of a similarity matrix. This invention also relates to the field of seismic attribute generation and the use of seismic attributes derived from similarity matrices to detect the conditions favorable for the origination, migration, accumulation, and presence of hydrocarbons in the subsurface. Additionally, the methods disclosed herein provide a new means for analyzing unstacked seismic data to uncover AVO effects. The invention disclosed herein will be most fully appreciated by those in the seismic interpretation and seismic processing arts.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Imag
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L6 and (domain or mesh\$)	4

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**Search Results - Record(s) 1 through 5 of 5 returned.**☐ 1. Document ID: US 20030080957 A1**Using default format because multiple data bases are involved.**

L11: Entry 1 of 5

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030080957

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030080957 A1

TITLE: System and method of direct mesh manipulation

PUBLICATION-DATE: May 1, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stewart, Paul Joseph	Ann Arbor	MI	US	
Marsan, Anne	Ann Arbor	MI	US	
Chen, Yifan	Ann Arbor	MI	US	

US-CL-CURRENT: 345/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 2. Document ID: US 20030067461 A1

L11: Entry 2 of 5

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030067461

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030067461 A1

TITLE: Methods, apparatus and computer program products that reconstruct surfaces from data point sets

PUBLICATION-DATE: April 10, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fletcher, G. Yates	Cary	NC	US	
Gloth, Tobias	Durham	NC	US	
Edelsbrunner, Herbert	Chapel Hill	NC	US	
Fu, Ping	Chapel Hill	NC	US	

US-CL-CURRENT: 345/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 3. Document ID: US 20030040893 A1

L11: Entry 3 of 5

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030040893

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030040893 A1

TITLE: Method and system of vectorial cartography

PUBLICATION-DATE: February 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Popovici, Lascar	Juan Les Pins		FR	

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 4. Document ID: US 20020143419 A1

L11: Entry 4 of 5

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143419

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020143419 A1

TITLE: Method and apparatus for generation of consistent parameterizations for a set of meshes

PUBLICATION-DATE: October 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Praun, Emil C.	Princeton	NJ	US	
Schroeder, Peter	Pasadena	CA	US	
Sweldens, Wim	New Providence	NJ	US	

US-CL-CURRENT: 700/98; 345/419, 345/420, 345/475, 359/458, 382/154, 700/118, 700/163

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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☐ 5. Document ID: US 6688886 B2

L11: Entry 5 of 5

File: USPT

Feb 10, 2004

US-PAT-NO: 6688886

DOCUMENT-IDENTIFIER: US 6688886 B2

TITLE: System and method for separating three-dimensional models

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Ima
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